KEEPING OUR WATER CLEAN

GUINN WALLOVER WATER RESOURCES AGENT









MEET THE ACSEC!





PARTNERS



































COOPERATIVE EXTENSION

























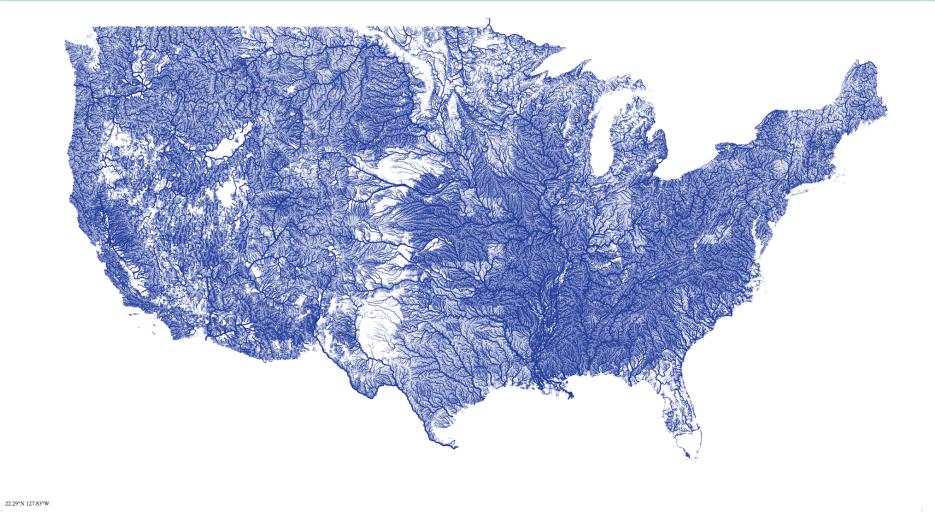












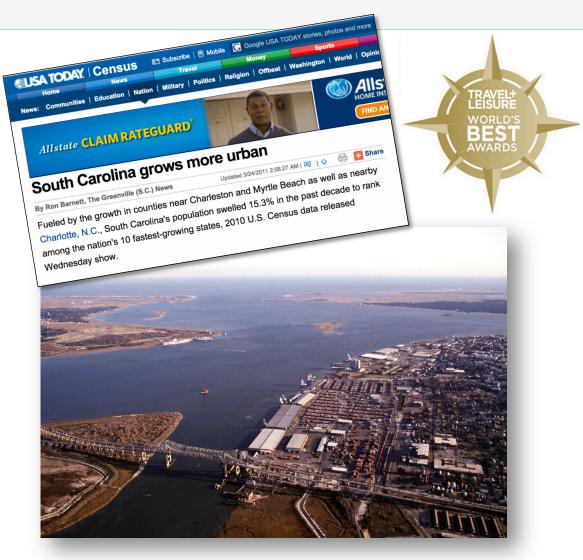
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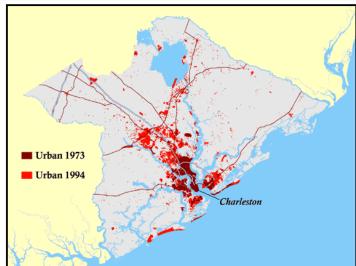


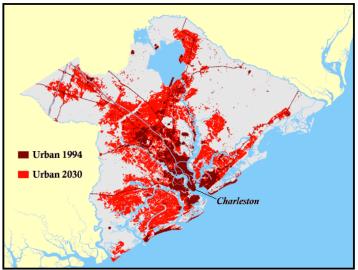


OUR SECRET IS OUT!



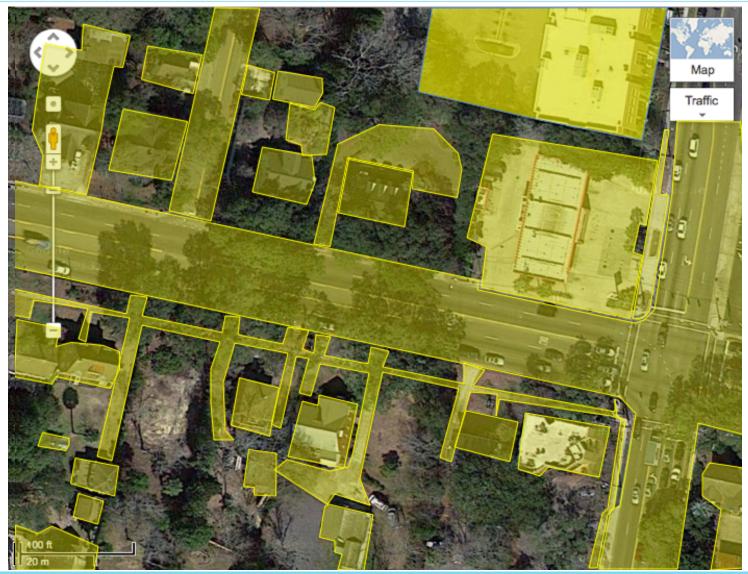






Source: Campbell, Passmore, and Allen. "Charleston Urban Growth Model Used to Identify Resources at Risk".





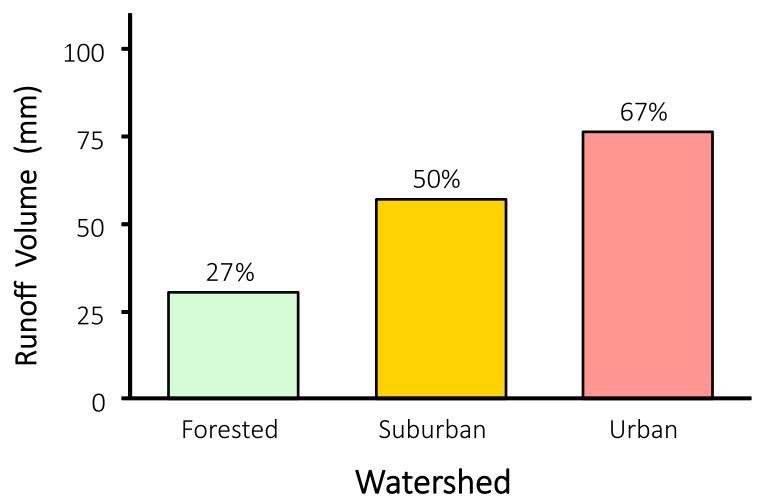


(WHAT DOES THIS MEAN FOR ME?)

Modeled Runoff Volume

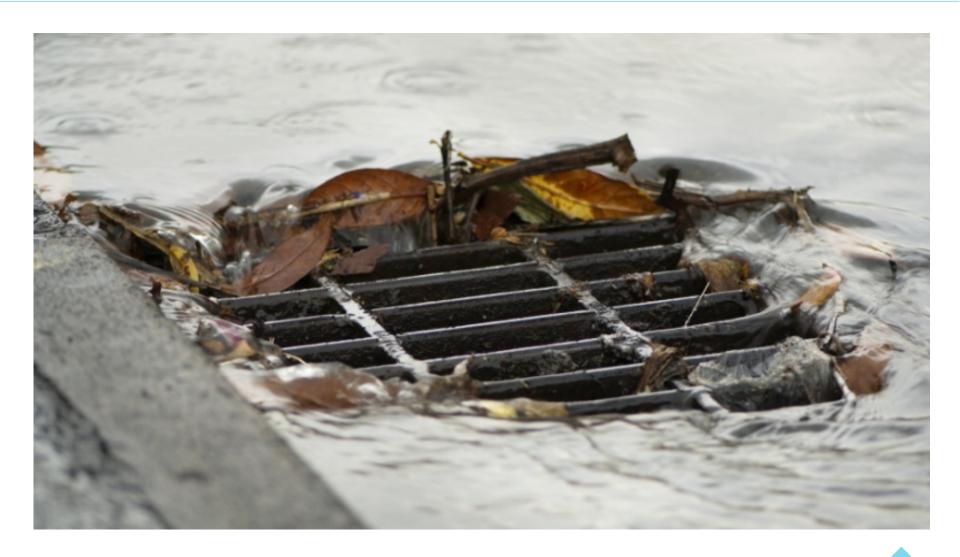


Scenario – 24-hr 4.5-in storm event, average runoff conditions



WHERE DOES THAT WATER GO?

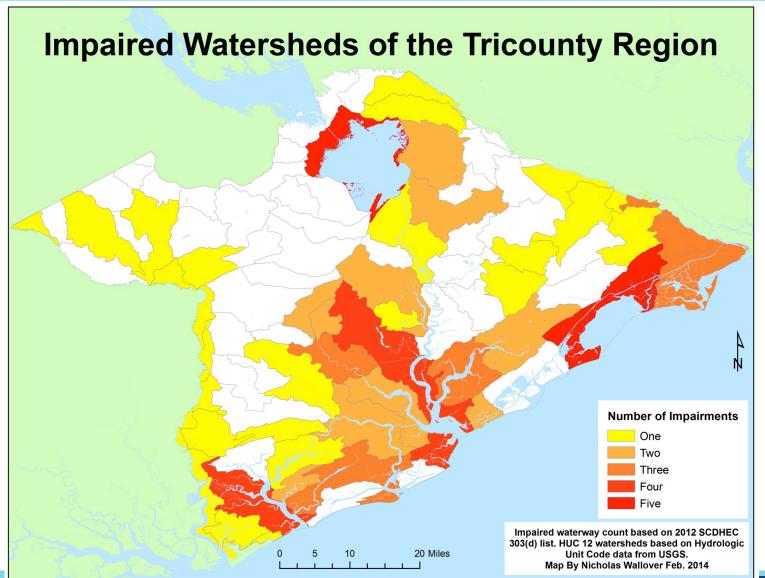












THE SCOOP ON POOP





TOO MUCH SPINACH?

Excess nutrients are a concern because:

- Lead to algal blooms
- Low oxygen leads to fish kills
- Some algae can be harmful!

Source of nutrients?
Fertilizers, grass
clippings, lawn debris





WHAT'S THE DIRTY ON DIRT?



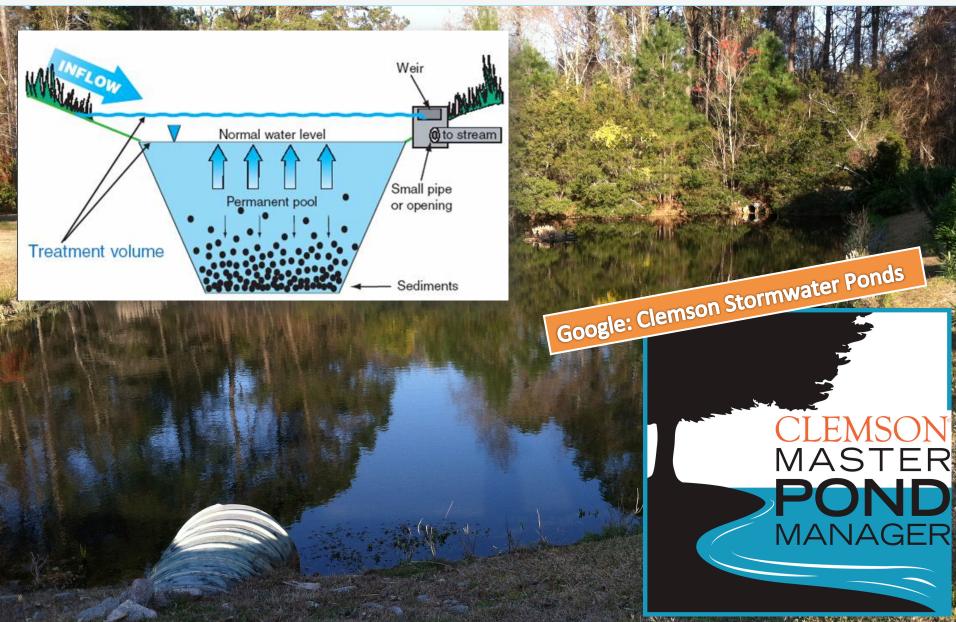




WHAT CAN WE DO TO KEEP OUR WATER CLEAN?

STORMWATER PONDS – WE LOVE THEM!





LOW IMPACT DEVELOPMENT





SOR



Rain Gardens

Permeable Pavement

Green Roofs









PICK UP AFTER YOUR PETS!







DON'T FEED WILDLIFE.



Canada Geese:

• 25x more harmful bacteria in waste than humans!

 "People food" is bad for geese.





PROPERLY DISPOSE OF HAZARDOUS WASTE.









Paint and Chemicals

antifree



A SERVICE OF CLEMSON UNIVERSITY EXTENSION

KEEP A TAB ON LAWN DEBRIS.



Options:

- ✓ Keep clippings in place
- ✓ Bag convenience center drop-off
- Add to your own compost pile

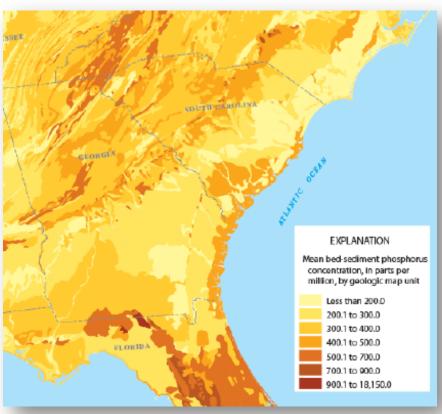




BE FERTILIZER SMART.



- Get a soil test (and save money, too!).
- Look for low to no-P fertilizers.
- Follow directions and seal and cover.



Scotts drops phosphorus from lawn fertilizer

Marysville company acts to reduce risk of runoff feeding toxic-algae blooms in lakes; competitors likely to follow its lead





Source: USGS NAQWA Program

WATER WISE GARDENING!





Visit: www.clemson.edu/cyn









REPORT ACCIDENTAL SPILLS OR DUMPING.



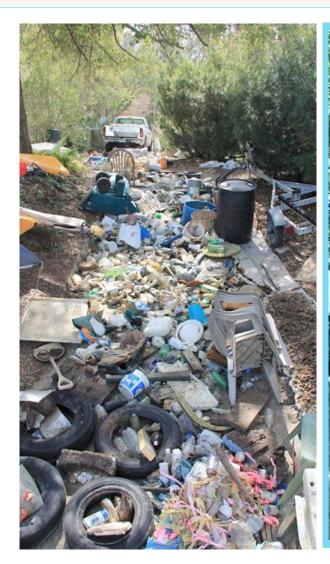




If spill happens, do you know what to do?

STOP LITTER IN ITS TRACKS!







ADDITIONAL RESOURCES



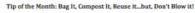


Visit us! www.ashleycooper.org





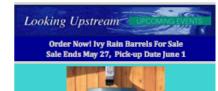




It's springitme and if your lawn is anything like ours, your weekends may be spent raking the last of the fallen oak leaves and pollen pods. Remember to be kind to our waterways by never blowing or dumping this yard debris into the street, storm drain, or ditch; this can lead to clogged pipes, flooded neighborhoods, and poor water quality in our ponds and downstream waterways.

Use the following tips to keep your yard and our water healthy this year:

- Leave your grass clippings in place and return beneficial nutrients, like nitrogen, to the soil.
- Adjust your mower height to the type of grass you have growing. A good rule of thumb is to remove only 1/3 of the grass height at any one time. Learn More.
- Start a compost pile as an inexpensive way to reuse lawn debris and improve your soil. <u>Learn More</u>.
- Bag your lawn debris for pickup or drop-off. Contact your local
 or county government representative for more details to find out if
 curbside pickup or drop-off centers are available in your
 community.
- If you use a landscaping service in your home yard or office, make sure you are on the same page regarding proper disposal of debris in your yard.





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CLICK THE DROPS

BELOW FOR MORE



Help us spread the message!



Guinn Garrett Wallover Water Resources Agent

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THANK YOU!







CLEMSON UNIVERSITY INSTITUTE OF COMPUTATIONAL ECOLO

POLLUTION REMOVAL POTENTIAL



Pollutant	% Removal		TO CALLED AN EACH CALL
Copper	43-97%	Pollutant Removal ¹ 80-90% - Total Suspended Solids 55-90% - Total Phosphorus 65-90% - Total Nitrogen N/A - Metals 55-90% - Pathogens 1 expected annual pollutant load removal	
Lead	70-95%		
Zinc	64-95%		
Phosphorus	65-87%		\ Mdv

Total Nitrogen

49-67%

Source: U.S. EPA, <u>Rain Gardening in the South</u>, <u>Low Impact</u> <u>Development In South Carolina</u>



